

RECEIVED  
SERIAL 6 2002  
TECH CENTER 1024  
16/1/2002



OIPE

P#10

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/830,748A

DATE: 08/22/2002  
TIME: 16:43:02

Input Set : A:\EP.txt  
Output Set: N:\CRF3\08222002\I830748A.raw

ENTERED

3 <110> APPLICANT: The Government of the United States of America, as represented by The  
 4 Secretary of the Department of Health and Human Services  
 5 Kashmiri, Syed V.S.  
 6 Padlan, Eduardo A.  
 7 Jeffery, Schлом  
 9 <120> TITLE OF INVENTION: VARIANTS OF HUMANIZED ANTI-CARCINOMA MONOCLONAL ANTIBODY

CC49

11 <130> FILE REFERENCE: 4239-61725  
 13 <140> CURRENT APPLICATION NUMBER: US 09/830,748A  
 14 <141> CURRENT FILING DATE: 2001-04-30  
 16 <150> PRIOR APPLICATION NUMBER: PCT/ US99/25552  
 17 <151> PRIOR FILING DATE: 1999-10-29  
 19 <150> PRIOR APPLICATION NUMBER: US 60/106,757  
 20 <151> PRIOR FILING DATE: 1998-11-02  
 22 <150> PRIOR APPLICATION NUMBER: US 60/106,534  
 23 <151> PRIOR FILING DATE: 1998-10-31  
 25 <160> NUMBER OF SEQ ID NOS: 44  
 27 <170> SOFTWARE: PatentIn version 3.1  
 29 <210> SEQ ID NO: 1  
 30 <211> LENGTH: 17  
 31 <212> TYPE: PRT  
 32 <213> ORGANISM: Mus musculus  
 34 <400> SEQUENCE: 1  
 36 Lys Ser Ser Gln Ser Leu Leu Tyr Ser Gly Asn Gln Lys Asn Tyr Leu  
 37 1 5 10 15  
 40 Ala  
 44 <210> SEQ ID NO: 2  
 45 <211> LENGTH: 7  
 46 <212> TYPE: PRT  
 47 <213> ORGANISM: Mus musculus  
 49 <400> SEQUENCE: 2  
 51 Trp Ala Ser Ala Arg Glu Ser  
 52 1 5  
 55 <210> SEQ ID NO: 3  
 56 <211> LENGTH: 9  
 57 <212> TYPE: PRT  
 58 <213> ORGANISM: Mus musculus  
 60 <400> SEQUENCE: 3  
 62 Gln Gln Tyr Tyr Ser Tyr Pro Leu Thr  
 63 1 5  
 66 <210> SEQ ID NO: 4  
 67 <211> LENGTH: 5  
 68 <212> TYPE: PRT  
 69 <213> ORGANISM: Mus musculus

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/830,748A

DATE: 08/22/2002

TIME: 16:43:02

Input Set : A:\EP.txt

Output Set: N:\CRF3\08222002\I830748A.raw

71 <400> SEQUENCE: 4  
73 Asp His Ala Ile His  
74 1 5  
77 <210> SEQ ID NO: 5  
78 <211> LENGTH: 17  
79 <212> TYPE: PRT  
80 <213> ORGANISM: Mus musculus  
82 <400> SEQUENCE: 5  
84 Tyr Phe Ser Pro Gly Asn Asp Asp Phe Lys Tyr Asn Glu Arg Phe Lys  
85 1 5 10 15  
88 Gly  
/ 92 <210> SEQ ID NO: 6  
93 <211> LENGTH: 6  
! 94 <212> TYPE: PRT  
95 <213> ORGANISM: Mus musculus  
97 <400> SEQUENCE: 6  
99 Ser Leu Asn Met Ala Tyr  
100 1 5  
103 <210> SEQ ID NO: 7  
104 <211> LENGTH: 17  
105 <212> TYPE: PRT  
106 <213> ORGANISM: Homo sapiens  
108 <400> SEQUENCE: 7  
110 Lys Ser Ser Gln Ser Val Leu Tyr Ser Ser Asn Ser Lys Asn Tyr Leu  
111 1 5 10 15  
114 Ala  
118 <210> SEQ ID NO: 8  
119 <211> LENGTH: 7  
120 <212> TYPE: PRT  
121 <213> ORGANISM: Homo sapiens  
123 <400> SEQUENCE: 8  
125 Trp Ala Ser Thr Arg Glu Ser  
126 1 5  
129 <210> SEQ ID NO: 9  
130 <211> LENGTH: 9  
131 <212> TYPE: PRT  
132 <213> ORGANISM: Homo sapiens  
134 <400> SEQUENCE: 9  
136 Gln Gln Tyr Tyr Ser Thr Pro Tyr Ser  
137 1 5  
140 <210> SEQ ID NO: 10  
141 <211> LENGTH: 5  
142 <212> TYPE: PRT  
143 <213> ORGANISM: Homo sapiens  
145 <400> SEQUENCE: 10  
147 Ser Tyr Ala Met His  
148 1 5  
151 <210> SEQ ID NO: 11  
152 <211> LENGTH: 17

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/830,748A

DATE: 08/22/2002

TIME: 16:43:02

Input Set : A:\EP.txt

Output Set: N:\CRF3\08222002\I830748A.raw

153 <212> TYPE: PRT  
 154 <213> ORGANISM: Homo sapiens  
 156 <400> SEQUENCE: 11  
 158 Trp Ile Asn Ala Gly Asn Gly Asn Thr Lys Asn Ser Gln Lys Phe Gln  
 159 1 5 10 15  
 162 Gly  
 166 <210> SEQ ID NO: 12  
 167 <211> LENGTH: 12  
 168 <212> TYPE: PRT  
 169 <213> ORGANISM: Homo sapiens  
 171 <400> SEQUENCE: 12  
 173 Gly Gly Tyr Tyr Gly Ser Gly Ser Gly Ser Asn Tyr  
 174 1 5 10  
 177 <210> SEQ ID NO: 13  
 178 <211> LENGTH: 113  
 179 <212> TYPE: PRT  
 180 <213> ORGANISM: Artificial Sequence  
 182 <220> FEATURE:  
 183 <223> OTHER INFORMATION: Mouse and Human Chimeric Antibody Light Chain Variable

## Region

185 <400> SEQUENCE: 13  
 187 Asp Ile Val Met Ser Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly  
 188 1 5 10 15  
 191 Glu Arg Val Thr Leu Asn Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser  
 192 20 25 30  
 195 Gly Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln  
 196 35 40 45  
 199 Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Ala Arg Glu Ser Gly Val  
 200 50 55 60  
 203 Pro Asp Arg Phe Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr  
 204 65 70 75 80  
 207 Ile Ser Ser Val Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln  
 208 85 90 95  
 211 Tyr Tyr Ser Tyr Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu  
 212 100 105 110  
 215 Lys

219 <210> SEQ ID NO: 14  
 220 <211> LENGTH: 115  
 221 <212> TYPE: PRT  
 222 <213> ORGANISM: Artificial Sequence  
 224 <220> FEATURE:

225 <223> OTHER INFORMATION: Mouse and Human Chimeric Antibody Heavy Chain Variable

## Region

227 <400> SEQUENCE: 14  
 229 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Val Lys Pro Gly Ala  
 230 1 5 10 15  
 233 Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp His  
 234 20 25 30  
 237 Ala Ile His Trp Val Lys Gln Asn Pro Gly Gln Arg Leu Glu Trp Ile  
 238 35 40 45  
 241 Gly Tyr Phe Ser Pro Gly Asn Asp Asp Phe Lys Tyr Asn Glu Arg Phe

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/830,748A

DATE: 08/22/2002

TIME: 16:43:02

Input Set : A:\EP.txt

Output Set: N:\CRF3\08222002\I830748A.raw

242	50	55	60														
245	Lys	Gly	Lys	Ala	Thr	Leu	Thr	Ala	Asp	Thr	Ser	Ala	Ser	Thr	Ala	Tyr	
246	65					70					75					80	
249	Val	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Phe	Cys	
250															95		
253	85										90						
254	Thr	Arg	Ser	Leu	Asn	Met	Ala	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	
															110		
257	100																
258	Val	Ser	Ser														
261	<210>	SEQ	ID	NO:	15												
262	<211>	LENGTH:	124														
263	<212>	TYPE:	DNA														
264	<213>	ORGANISM:	Artificial Sequence														
266	<220>	FEATURE:															
267	<223>	OTHER INFORMATION:	VH Oligonucleotide Primer														
269	<400>	SEQUENCE:	15														
270	ctaagcttc	accatggagt	ggtcctgggt	cttcctttc	ctccctgctgc	tgtgggttag									60		
272	atgcactcc	caggccacgc	tggtgcatgc	cggcgctgag	tccctggccg	tgtcccaggg									120		
274	cgtg														124		
277	<210>	SEQ	ID	NO:	16												
278	<211>	LENGTH:	123														
279	<212>	TYPE:	DNA														
280	<213>	ORGANISM:	Artificial Sequence														
282	<220>	FEATURE:															
283	<223>	OTHER INFORMATION:	VH Oligonucleotide Primer														
285	<400>	SEQUENCE:	16														
286	ggagagaaat	atccaatcca	ctccaggcgc	tgtccaggat	tctgtttctt	ctgatttccg									60		
288	ctatagagag	tgaagggtgt	gccgcttgcc	ttgcaggaaa	tcttcacgccc	cagggacacgc									120		
290	gcc														123		
293	<210>	SEQ	ID	NO:	17												
294	<211>	LENGTH:	126														
295	<212>	TYPE:	DNA														
296	<213>	ORGANISM:	Artificial Sequence														
298	<220>	FEATURE:															
299	<223>	OTHER INFORMATION:	VH Oligonucleotide Primer														
301	<400>	SEQUENCE:	17														
302	tggagtggat	tggatatttc	tctccggaa	acgatgattt	taagtacaat	gagaggttca									60		
304	aggccaaggc	cacactgact	gcagacacat	ctgccagcac	tgcctacgtg	gagctctcca									120		
306	gcctga														126		
309	<210>	SEQ	ID	NO:	18												
310	<211>	LENGTH:	125														
311	<212>	TYPE:	DNA														
312	<213>	ORGANISM:	Artificial Sequence														
314	<220>	FEATURE:															
315	<223>	OTHER INFORMATION:	VH Oligonucleotide Primer														
317	<400>	SEQUENCE:	18														
318	atggggccgt	agtttggcg	ctggagacgg	tgaccagggt	tccctgtccc	cagtagggcca									60		
320	tattcaggg	tcttgtgcag	aagtacactg	cagtatcctc	ggatctcagg	ctggagagct									120		
322	ccacg														125		

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/830,748A

DATE: 08/22/2002

TIME: 16:43:02

Input Set : A:\EP.txt

Output Set: N:\CRF3\08222002\I830748A.raw

325 <210> SEQ ID NO: 19  
 326 <211> LENGTH: 122  
 327 <212> TYPE: DNA  
 328 <213> ORGANISM: Artificial Sequence  
 330 <220> FEATURE:  
 331 <223> OTHER INFORMATION: VL Oligonucleotide Primer  
 333 <400> SEQUENCE: 19  
 334 gcaagcttcc accatggata gccaggccca ggtgctcatg ctcctgctgc tggggtag 60  
 336 cggcacatgc ggcgacatcg tggatggcca gtctccagac tccctggccg tgtcccagg 120  
 338 cg 122  
 341 <210> SEQ ID NO: 20  
 342 <211> LENGTH: 121  
 343 <212> TYPE: DNA  
 344 <213> ORGANISM: Artificial Sequence  
 346 <220> FEATURE:  
 347 <223> OTHER INFORMATION: VL Oligonucleotide Primer  
 349 <400> SEQUENCE: 20  
 350 gggtctgccc ctggtttctg ctgataaccag gcgagatagt tcttctgatt tccgctata 60  
 352 agcaggact ggctggactt gcaattcaga gtcaccctct cggccaggaa cacggccagg 120  
 354 g 121  
 357 <210> SEQ ID NO: 21  
 358 <211> LENGTH: 121  
 359 <212> TYPE: DNA  
 360 <213> ORGANISM: Artificial Sequence  
 362 <220> FEATURE:  
 363 <223> OTHER INFORMATION: VL Oligonucleotide Primer  
 365 <400> SEQUENCE: 21  
 366 gcagaaaacca gggcagagcc ctaaactgct gatttactgg gcatccgcta gggaatccgg 60  
 368 cgtgcctgat cgcttcagcg gcagcggatc tgggacagac ttcaactctga caatcagcag 120  
 370 c 121  
 373 <210> SEQ ID NO: 22  
 374 <211> LENGTH: 126  
 375 <212> TYPE: DNA  
 376 <213> ORGANISM: Artificial Sequence  
 378 <220> FEATURE:  
 379 <223> OTHER INFORMATION: VL Oligonucleotide Primer  
 381 <400> SEQUENCE: 22  
 382 agccgcggcc cgtttcagtt ccagcttggg gccagcgccg aatgtgaggg gatagctata 60  
 384 atactgctga caataataga ctgccacgtc ttctgcctgc acgctgctga ttgtcagagt 120  
 386 gaatgc 126  
 389 <210> SEQ ID NO: 23  
 390 <211> LENGTH: 19  
 391 <212> TYPE: DNA  
 392 <213> ORGANISM: Artificial Sequence  
 394 <220> FEATURE:  
 395 <223> OTHER INFORMATION: Oligonucleotide Primer  
 397 <400> SEQUENCE: 23  
 398 ctaagcttcc accatggag 19  
 401 <210> SEQ ID NO: 24

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/830,748A

DATE: 08/22/2002

TIME: 16:43:03

Input Set : A:\EP.txt

Output Set: N:\CRF3\08222002\I830748A.raw